

From: [Benjamin Shorr](#)
To: [Robert Gensemer](#)
Cc: [Eric Blischke/R10/USEPA/US@EPA](#); [Robert.Neely@noaa.gov](#); [Ron.Gouguet@noaa.gov](#); [Brad Hermanson](#); [Carrie Smith](#); [Jim Koloszar](#); [Margaret Spence](#); [Jay Field](#)
Subject: Re: Rd. 2 Data Review- initial spatial analyses
Date: 12/21/2006 09:10 AM

Bob-

The files currently on the NOAA ftp site (draft) are:

pah_sereis1_RiverMiles.pdf; **pah_series2_FandT.pdf**; **pah_series3_AOPC.pdf** = 3 series maps showing PAH's summarized by River Miles, AOPC's, and Fate and Transport Segments.
ph_base_121806.pdf = 1 map of the River Miles with an explanation of areas.
fpm_series1.pdf & lrm_series1.pdf = 2 map series with Logistic Regression & Floating Percentile (separate- probably more effective to map them together)
rm_surfsed_catlrisk_pah.xls = Excel Table & Graphs: Total PAHs graphed by River Mile and side, Total
clam_totalpah_Identity2.xls = PAHs in clams (these in particular are not perfect)
Multichem_statssummary_20061219.doc = Word Doc: Screenshots of selected analytes in surface sediment Histograms & QQPlots
surfsed_catlrisk_pah_autodoc.txt = Metadata: Query Manager auto-documentation (example)

I just added the LRM & FPM figures- all draft of course.

Also, I posted some examples for discussion on our ftp site:

I've posted some examples of mapping and Excel graphs (with data tables) for discussion. There may be errors- I've been using these as a test to explore the data and the processes.

Non-Responsive

Robert Gensemer wrote:

Thanks, all, for the replies. Ben, Carrie, Jim, and Margaret are all available tomorrow afternoon, so lets go for 2pm for a planning call to go over Ben's observations/questions, and get organized and going on analyses.

Lets us my callin number: Non-Responsive

Ben: In advance, could you send around a quick list of files we should have in front us on computer screens if we need to refer to them?
Thanks.
-Bob

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Benjamin Shorr
<Benjamin.Shorr@noaa.gov> 12/20/06
11:02 AM >>>

Bob & Eric et al-

I've been going through the contaminant and spatial data and coming up with a methodology/process for querying and summarizing spatially to meet the needs of inputs to HH, ER, BSAF and the other analyses, and mapping/graphing. I've created some base GIS layers that we can use to

summarize/assign location to contaminant data (River Miles & Fate and Transport segments) and have come up with a couple of observations/questions:

1. The reference value table should probably be in the same units as the database (Query Manager) with a clear indication of what guideline or value was chosen based on the priority preference. This will help with identifying the sources in tables/graphs/figures. Additionally, the Chem names should be translated into the Chemcodes in Query Manager-

this should help with ensuring consistency between sed/tissue/bioassay &

water data & using a look-up table.

2. Statistics: For summarized data- fate and transport segments, River Miles, nearshore receptor habitat etc. I have explored a bit how best to calculate 95% UCL's and perhaps UPLs (using surface sediment as a test case) for 8 metals, Total PAH, PCBs, DDT, Dieldrin. Generally, these contaminants are distributed log-normally (entire site). We should discuss the best and most appropriate way to incorporate/present UCLs/UPLs. Generation of the following statistics for the sub-areas summation is a standard part of the methodology: Min, Max, Count, Mean, SD and Variance. I've also found that generating a master contaminant data query from Query Manager has some limitations in the GIS because of the -999 entry for non-tested analytes at a station. This just means that folks doing mapping & analysis need to coordinate on what queries should be used for

what pieces.

3. Non-detects or below detection limit: It's important to understand how Query Manager queries handle these selections- and how the inputs for the different analyses should be created. We should discuss this.

4. Inclusion/Exclusion of areas like GASCO, T4, McCormick & Baxters:
how should data that is in these areas be handled for this data review?

Temporally, what data should be used for analysis and presentation for this Rd. 2 Data Review?

I've posted some examples of mapping and Excel graphs (with data tables)

for discussion. There may be errors- I've been using these as a test to

explore the data and the process.

Non-Responsive

Maps: 3 series maps showing PAH's summarized by River Miles, AOPC's, and

Fate and Transport Segments. 1 map of the River Miles with an explanation of areas.

Excel Table & Graphs: Total PAHs graphed by River Mile and side, Total

PAHs in clams (these in particular are not perfect)

Word Doc: Screenshots of selected analytes in surface sediment

Histograms & QQPlots

Metadata: Query Manager auto-documentation

I'm sure there is more, but these are initial observations after running

through the data a bit, hopefully we can discuss and begin moving forward systematically.

Thanks,

Ben

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